

## **RAW SEQUENCE LISTING**

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Application Serial Number: 10591203

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<110> APPLICANT: University of Georgia Research Foundation, Inc  
The Ohio State University  
Maier, Robert J  
Gunn, John S

<120> TITLE OF INVENTION: Hydrogenase Deficient Bacterial Strains

<130> FILE REFERENCE: 31725-77460

<140> CURRENT APPLICATION NUMBER: 10591203  
<141> CURRENT FILING DATE: 0001-01-01  
<150> PRIOR APPLICATION NUMBER: PCT/US05/06638  
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<150> PRIOR APPLICATION NUMBER: 60/549,306  
<151> PRIOR FILING DATE: 2004-03-02  
<150> PRIOR APPLICATION NUMBER: 60/604,846  
<151> PRIOR FILING DATE: 2004-08-26  
<160> NUMBER OF SEQ ID NOS: 21  
<170> SOFTWARE: PatentIn version 3.3

<210> SEQ ID NO 1  
<211> LENGTH: 51  
<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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<213> ORGANISM: Salmonella typhimurium  
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<210> SEQ ID NO 3  
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<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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<211> LENGTH: 50  
<212> TYPE: DNA  
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cccctaagac taatatccgc attacaaaac catatgaata tcctccttag  
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<210> SEQ ID NO 5  
<211> LENGTH: 51  
<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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<210> SEQ ID NO 6  
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<213> ORGANISM: Salmonella typhimurium  
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<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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acaatacgca ccccgatggc ttcatcggtc agcaaaaatat tgccgacccc taagactaat  
120  
atccgcatta caaaaactgca caaagcttca taaaatcacf acggtaatg ccgtgagaag  
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232

<210> SEQ ID NO 8  
<211> LENGTH: 518  
<212> TYPE: DNA  
<213> ORGANISM: Salmonella typhimurium  
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120  
ttgaatcgat ggcagggggc ggccaatgaa atatcctgta acagccagga cgacaatgga  
180  
taacgcccgtg atccagtgcc ataaacggac cggcgcttca tagatatagt acccctggct  
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caacgtgtt tagtagcaat tatgtttcta attcgtaaca actgattaca tgtgtgctac  
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518

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333

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<210> SEQ ID NO 16  
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cccaagctta gcgtacctgg acggc  
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ttcggttat gaggataatc agcc  
24

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<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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aataaagcac aactcccgta agag  
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<210> SEQ ID NO 20  
<211> LENGTH: 23  
<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
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ggcttagataac aagaatcgct aat  
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<210> SEQ ID NO 21  
<211> LENGTH: 23  
<212> TYPE: DNA  
<213> ORGANISM: Helicobacter hepaticus  
<400> SEQUENCE: 21  
ctacctacta ccgcataatc aag  
23